



SPEC® CINT2006 Result

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NEC Corporation

Express5800/120Bb-6
(Intel Xeon processor 5130)

SPECint®2006 = 15.4

SPECint_base2006 = 14.0

CPU2006 license: 9006

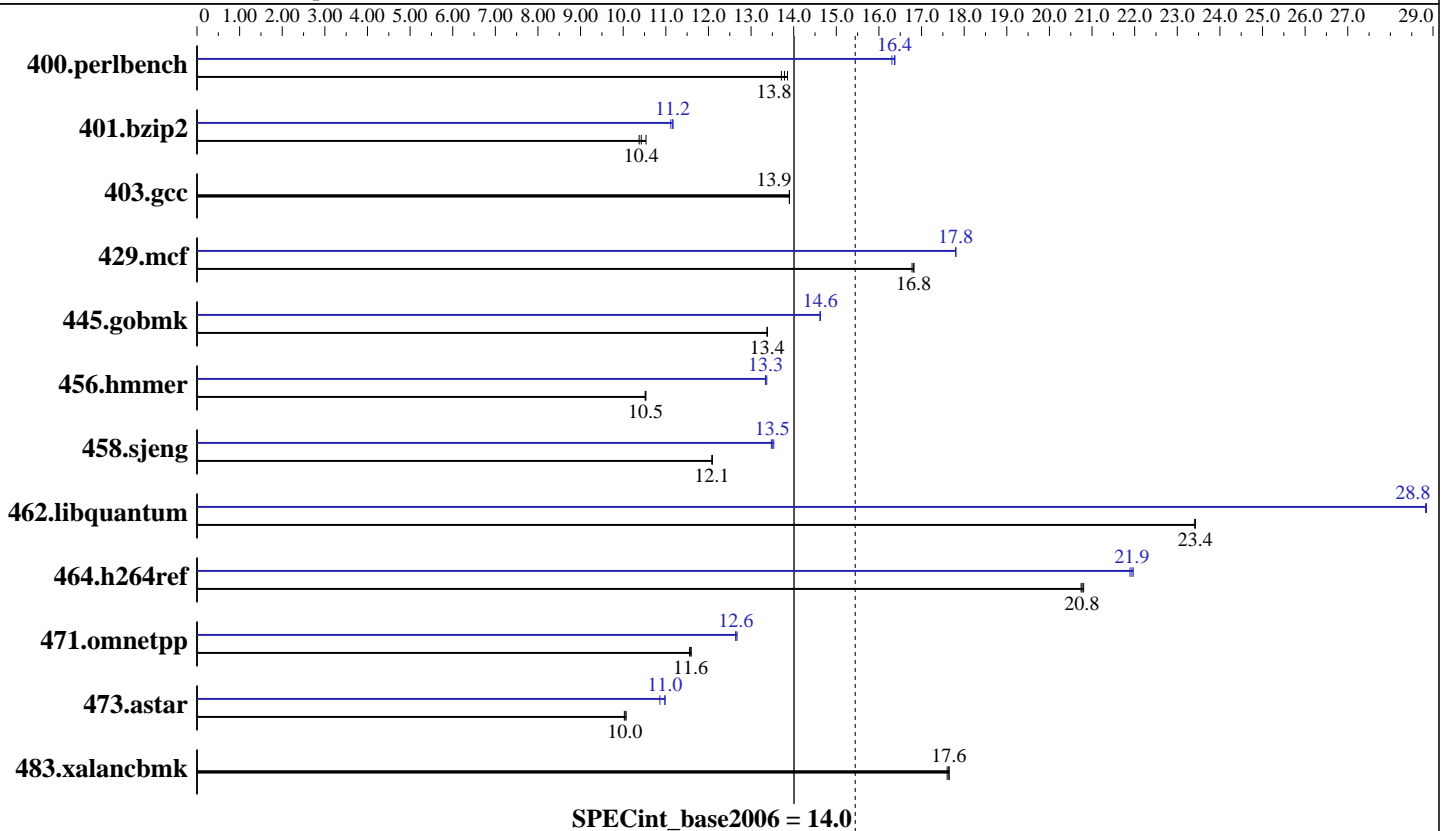
Test sponsor: NEC Corporation

Tested by: NEC Corporation

Test date: Oct-2007

Hardware Availability: May-2007

Software Availability: Jun-2007



Hardware

CPU Name: Intel Xeon 5130
 CPU Characteristics: 2.00 GHz, 4MB L2, 1333MHz bus
 CPU MHz: 2000
 FPU: Integrated
 CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip
 CPU(s) orderable: 1,2 chips
 Primary Cache: 32 KB I + 32 KB D on chip per core
 Secondary Cache: 4 MB I+D on chip per chip
 L3 Cache: None
 Other Cache: None
 Memory: 8 GB (4x2 GB PC2-5300F, 2 rank, CL5-5-5, ECC)
 Disk Subsystem: 1x146.5 GB SAS, 10000RPM
 Other Hardware: None

Software

Operating System: 64-Bit SUSE LINUX Enterprise Server 10, Kernel 2.6.16.21-0.8-smp for x86_64
 Compiler: Intel C++ Compiler for IA32/EM64T application, Version 10.0 - Build 20070426 Package ID: l_cc_p_10.0.023
 Auto Parallel: No
 File System: ext2
 System State: Multiuser, Runlevel 3
 Base Pointers: 32-bit
 Peak Pointers: 32/64-bit
 Other Software: MicroQuill SmartHeap library 8.1 binutils-2.17.tar.gz, Version 2.17



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Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	705	13.9	<u>709</u>	<u>13.8</u>	713	13.7	599	16.3	597	16.4	<u>597</u>	<u>16.4</u>
401.bzip2	916	10.5	930	10.4	<u>926</u>	<u>10.4</u>	868	11.1	<u>864</u>	<u>11.2</u>	864	11.2
403.gcc	579	13.9	<u>579</u>	<u>13.9</u>	579	13.9	579	13.9	<u>579</u>	<u>13.9</u>	579	13.9
429.mcf	542	16.8	544	16.8	<u>542</u>	<u>16.8</u>	512	17.8	512	17.8	<u>512</u>	<u>17.8</u>
445.gobmk	784	13.4	<u>784</u>	<u>13.4</u>	784	13.4	718	14.6	<u>717</u>	<u>14.6</u>	717	14.6
456.hmmmer	886	10.5	887	10.5	<u>886</u>	<u>10.5</u>	<u>699</u>	<u>13.3</u>	700	13.3	698	13.4
458.sjeng	1001	12.1	<u>1001</u>	<u>12.1</u>	1001	12.1	<u>896</u>	<u>13.5</u>	898	13.5	894	13.5
462.libquantum	885	23.4	<u>885</u>	<u>23.4</u>	885	23.4	<u>718</u>	<u>28.8</u>	718	28.8	719	28.8
464.h264ref	<u>1066</u>	<u>20.8</u>	1064	20.8	1067	20.7	1011	21.9	1007	22.0	<u>1009</u>	<u>21.9</u>
471.omnetpp	541	11.6	<u>539</u>	<u>11.6</u>	539	11.6	493	12.7	494	12.6	<u>494</u>	<u>12.6</u>
473.astar	<u>699</u>	<u>10.0</u>	700	10.0	697	10.1	<u>639</u>	<u>11.0</u>	646	10.9	639	11.0
483.xalancbmk	392	17.6	<u>391</u>	<u>17.6</u>	391	17.6	392	17.6	<u>391</u>	<u>17.6</u>	391	17.6

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

Operating System Notes

'ulimit -s unlimited' was used to set the stacksize to unlimited prior to run

General Notes

All benchmarks compiled in 32-bit mode except 401.bzip2 and 456.hmmmer, for peak, are compiled in 64-bit mode

Base Compiler Invocation

C benchmarks:
icc

C++ benchmarks:
icpc

Base Portability Flags

400.perlbench: -DSPEC_CPU_LINUX_IA32
462.libquantum: -DSPEC_CPU_LINUX
483.xalancbmk: -DSPEC_CPU_LINUX



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Base Optimization Flags

C benchmarks:
-fast

C++ benchmarks:
-xT -ipo -O3 -no-prec-div -Wl,-z,muldefs
-L/opt/SmartHeap_8.1/lib -lsmartheap

Base Other Flags

C benchmarks:
403.gcc: -Dalloca=_alloca

Peak Compiler Invocation

C benchmarks (except as noted below):
icc

401.bzip2: /opt/intel/cce/10.0.023/bin/icc
456.hmmer: /opt/intel/cce/10.0.023/bin/icc

C++ benchmarks:
icpc

Peak Portability Flags

400.perlbench: -DSPEC_CPU_LINUX_IA32
401.bzip2: -DSPEC_CPU_LP64
456.hmmer: -DSPEC_CPU_LP64
462.libquantum: -DSPEC_CPU_LINUX
483.xalancbmk: -DSPEC_CPU_LINUX

Peak Optimization Flags

C benchmarks:

400.perlbench: -prof-gen(pass 1) -prof-use(pass 2) -fast -ansi-alias
-prefetch

401.bzip2: -L/opt/intel/cce/10.0.023/lib -I/opt/intel/cce/10.0.023/include
-prof-gen(pass 1) -prof-use(pass 2) -fast

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Peak Optimization Flags (Continued)

403.gcc: basepeak = yes

429.mcf: -fast -prefetch

445.gobmk: -prof-gen(pass 1) -prof-use(pass 2) -xT -O2 -ipo
-no-prec_div -ansi-alias

456.hmmer: -L/opt/intel/cce/10.0.023/lib -I/opt/intel/cce/10.0.023/include
-prof-gen(pass 1) -prof-use(pass 2) -fast -unroll2
-ansi-alias

458.sjeng: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll4

462.libquantum: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll4 -Ob0
-prefetch -opt-streaming-stores always

464.h264ref: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll2
-ansi-alias

C++ benchmarks:

471.omnetpp: -prof-gen(pass 1) -prof-use(pass 2) -xT -O3 -ipo
-no-prec_div -ansi-alias -Wl,-z,muldefs
-L/opt/SmartHeap_8.1/lib -lsmarheap

473.astar: Same as 471.omnetpp

483.xalancbmk: basepeak = yes

Peak Other Flags

C benchmarks:

403.gcc: -Dalloca=_alloca

The flags file that was used to format this result can be browsed at

<http://www.spec.org/cpu2006/flags/NEC-ic10-linux-flags.html>

You can also download the XML flags source by saving the following link:

<http://www.spec.org/cpu2006/flags/NEC-ic10-linux-flags.xml>



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Tested with SPEC CPU2006 v1.0.
Report generated on Tue Jul 22 14:12:58 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 30 October 2007.